CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2016-17 29.12.2016

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Construction of retaining wall and other development work to proposed playground at Mallasandra in Ward No.13, BBMP, Bangalore.
* Reference	:	AEE/PSD/PR/119/2016-17 Dated: 23.12.2016
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	29.12.2016

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	516	518	13.45	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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#23/14, 7th Cross. 3rd Stage 4th Block,
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Basaveshwaranagar, Bangalore-560 079.

AE (P)
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Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

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Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2016-17

29.12.2016

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Construction of retaining wall and other development work to proposed playground at Mallasandra in Ward No.13, BBMP, Bangalore.
* Reference	:	AEE/PSD/PR/119/2016-17 Dated: 23.12.2016
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	29.12.2016

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	521	523	13.55	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-12/227e/Cube/2016-17 01.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of the work	:	Construction of retaining wall and other development work to proposed playground at Mallasandra in Ward No.13, BBMP, Bangalore.
* Reference	:	AEE/PSD/PR/119/2016-17 Dated: 23.12.2016
* Sample ID	:	RCC Footing Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	01.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.01.2017	01.02.2017	8.185	475.5	21.13
2	04.01.2017	01.02.2017	8.263	489.3	21.75
3	04.01.2017	01.02.2017	8.337	502.3	22.32

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Technical Manager

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Sample Received on	:	01.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.01.2017	01.02.2017	8.205	482.5	21.44
2	04.01.2017	01.02.2017	8.308	499.8	22.21
3	04.01.2017	01.02.2017	8.415	526.8	23.41

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-12/227e/Cube/2016-17 06.02.2017

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.01.2017	06.02.2017	8.099	480.3	21.35
2	09.01.2017	06.02.2017	8.192	495.6	22.03
3	09.01.2017	06.02.2017	8.285	512.5	22.78

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Sample Received on	:	06.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.01.2017	06.02.2017	8.132	474.9	21.11
2	09.01.2017	06.02.2017	8.228	483.6	21.49
3	09.01.2017	06.02.2017	8.337	512.3	22.77

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